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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/618,169	07/11/2003	Richard Armstrong	CAS1.PAU.28	4366	
23386 7	23386 7590 09/07/2005			EXAMINER	
	WES ANDRAS & SHE	NGUYEN,	NGUYEN, SANG H		
SUITE 1150	RTHUR BLVD.,		ART UNIT	PAPER NUMBER	
IRVINE, CA	92612		2877		

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/618,169	ARMSTRONG, RICHARD				
Office Action Summary	Examiner	Art Unit				
·	Sang Nguyen	2877				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 11 Ju	dv 2003					
	action is non-final.					
	this application is in condition for allowance except for formal matters, prosecution as to the merits is					
· ···	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,10,13 and 14</u> is/are rejected.						
7) Claim(s) <u>3-9,11,12 and 15-23</u> is/are objected to						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
	i i					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		*				
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Art Unit: 2877

DETAILED ACTION

Claim Objections

Claim 1 is objected to because of the following informalities:

Claim 1 recites the limitation "sends a sensor return signal" in lines 9-10. There is insufficient antecedent basis for this limitation in the claim.

. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 10, 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kirkpatrick (U. S. Patent No. 4,905,581) in view of Staples et al (6,050,148).

Regarding claim 1; Kirkpatrick teaches a single sensor actuation system for a driven belt of a tortilla press, comprising:

a signal emitting and retrieving sensor (36 of figure 7 and col.3 lines 64-68) for producing an emitted signal;

an AC inverter, the sensor connected to the inverter:

at least one detectable element considered to be a dougball workpiece (27 of figure 5) on the belt (16, 29 of figure 7) and sensed by the sensor (36 of figure 7) when

Art Unit: 2877

said detectable element is aligned with the emitted signal of the sensor (36 of figure 7); and

a platen considered to be a movable plate (24 of figure 7) and a fixed plate (22 of figure 7) of a press unit (14 of figure 7) for pressing tortillas on the belt (16, 29 of figure 7), wherein the sensor (36 of figure 7) for retrieving a reflected signal (figure 1 and col.3 lines 64-68) from said detectable element (27 of figure 7) and sends return signal of the sensor to a motor driving the belt (55 of figure 7 and col.4 lines 20-32) of a processing control system (43 of figure 8) to stop the belt (29 of figure 7) in response to the retrieving when the at least one detectable element (27 of figure 5) is aligned with the emitted signal of the sensor (36 of figure 7), and wherein the processing control system (43 of figure 8) sends a signal to a switch actuator (50, 52 of figure 7) of the platen (24 of figure 7) of the press unit (14 of figure 7) to bring the platen down to press a tortilla when the belt has stopped (col.4 line 10 to col.6 line 65). Figures 1-8.

Kirkpatrick teaches all of features of claimed invention except for the sensor connected to an AC inverter. However, Staple et al teaches that it is known in the art to provide an apparatus (10 of figure 1) having an a programmable logic controller (86 of figure 10) is coupled to AC inverter (100 of figure 10) and a proximity sensor (102 of figure 10 and col.5 line 44 to col.6 line 2). See figures 1-10.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to combine Kirkpatrick's a method and a single sensor actuation system for a driven belt of a tortilla press with the sensor connected to an AC

Art Unit: 2877

inverter as taught by Staple et al for the purpose of controlling various speed into revolutions per minute of shaft.

Regarding claims 2 and 14; Kirkpatrick teaches the processing control system (43 of figure 8) includes a switch (55 of figure 7) contacts to conveyor drive motor (30 of figure 7), and the motor (30 of figure 7) has a lead connecting the motor to the processing control system (43 of figure 8) so that the switch closes when the motor goes to 0 Hz (col.5 lines 3-45).

Regarding claim 10; Kirkpatrick teaches the belt is a flexible belt (16 of figure 7) surrounding at least one roller (30, 32 of figure 7), and wherein the sensor (36 of figure 7) is positioned juxtaposed to said at least one roller (30 of figure 7).

Regarding claim 13; Kirkpatrick teaches a method of actuating a second part of a tortilla machine in response to a detected position of a first part of the machine, comprising:

detecting a first position (28 of figure 1) of said first part of the machine considered to be a movable plate (24 of figure 2) of ram (26 of figure 2) to close a piece work (27 of figure 2) by a sensor (36 of figure 2), wherein the first part has the piece work (27 of figure 2);

sending a signal from the sensor (36 of figure 2) to a processing system (43 of figure 8) when the first position is detected by the sensor (36 of figure 2);

slowing the first part of the machine (24, 26 of figure 3) by a signal from the processing control system (43 of figure 8) to a drive (50, 52 of figure 7) of the first part;

Art Unit: 2877

stopping the first part of the machine by a limit switch (50, 52 of figure 7) contact to an emergency stop (60 of figure 8) and a stop cycle (58 of figure 8 of the processing control system (43 of figure 8) at a predetermined second position different from the first position (figures 2-3); and

Page 5

actuating the second part of the machine (16 of figure 7) by a conveyor drive roller (30 of figure 7) with a switch (55 of figure 7) when a signal from the drive of the first part of the machine goes to a zero frequency (col.4 line 12 to col.6 line 65). See figures 1-8.

Kirkpatrick teaches all of features of claimed invention except for the sensor connected to an AC inverter. However, Staple et al teaches that it is known in the art to provide an apparatus (10 of figure 1) having an a programmable logic controller (86 of figure 10) is coupled to AC inverter (100 of figure 10) and a proximity sensor (102 of figure 10 and col.5 line 44 to col.6 line 2). See figures 1-10.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to combine Kirkpatrick's a method and a single sensor actuation system for a driven belt of a tortilla press with the sensor connected to an AC inverter as taught by Staple et al for the purpose of controlling various speed into revolutions per minute of shaft.

Allowable Subject Matter

Art Unit: 2877

Claims 3-9, 11-12, and 15-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art of record, taken alone or in combination, fails discloses or render obvious a single sensor actuation system for a driven belt of a tortilla press comprising all the specific elements with the specific combination including of the inverter and an associated Programmable Logic Controller (PLC) receive the sensor return signal from the sensor when a detectable element is detected by the sensor, and wherein the inverter stops the motor through a pre-programmed vector curve that is provided as an integral pad of the inverter so that the belt moves a set distance past the point at which the retrieved signal was received by the inverter so that the belt travel after a retrieved stop signal is the same independent of the belt's original speed in set forth limitation of claim 3.

The prior art of record, taken alone or in combination, fails discloses or render obvious a single sensor actuation system for a driven belt of a tortilla press comprising all the specific elements with the specific combination including of the sensor is a fiber optic light sensor with capabilities of sensing multiple shades of color from the detectable element, and wherein the detectable element is a colored mark of a predetermined range of shades and color on the belt in set forth limitation of claim 11.

The prior art of record, taken alone or in combination, fails discloses or render obvious a single sensor actuation system for a driven belt of a tortilla press comprising all the specific elements with the specific combination including of the sensor is directly

Art Unit: 2877

connected to a terminal block in the AC inverter and sends a sensor return signal
to the motor to stop the belt in response to said retrieving when the at least one
detectable element is aligned with the emitted signal of the sensor in set forth limitation
of claim 12.

The prior art of record, taken alone or in combination, fails discloses or render obvious a method of actuating a second part of a tortilla machine in response to detected position of a first part of the machine comprising all the specific elements with the specific combination including of the first part has a detectable element and the machine has a sensor for detecting the detectable element, the method further comprising: detecting the position of the first part by sensing the detectable element on the first part by the sensor, and retrieving a returned signal from the detectable element and sending said returned signal to the inverter in set forth limitation of claim 15.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Karner (6558720) discloses method for automatically sizing and positioning filling material; Goranson (6157014) discloses product-based microwave power level controller; Longoria et al (6053695) discloses tortllia counter stacker; Pant et al (5762536) discloses sensor for a linear polisher; Patel (5630358) discloses countertop appliance for making disc-shape edibles; Lawrence et al (5231919) discloses conveyor belt for dough ball pressing apparatus; Rubio et al (4938126) tortllia press apparatus; or Suzuki et al (4874264) discloses selective magnetic attachment of a print head to a drive belt.

Art Unit: 2877

Any inquiry concerning this communication or earlier communications from the

Page 8

examiner should be directed to Sang Nguyen whose telephone number is (571) 272-

2425. The examiner can normally be reached on 9:30 am to 7:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gregory J. Toatley, Jr. can be reached on (571) 272-2800 ext. 77. The fax

phone number for the organization where this application or proceeding is assigned is

571-273-8300.

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SN

Patent Examiner Sang nguyen Art Unit 2877 September 2, 2005

Supervisory Patent Examiner

Technology Center 2800